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DATE MAILED: 04/19/2005

APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/666,901 09/20/2000		Vincent Liu	GIC-620 8304		
7590 04/19/2005			EXAMINER		
Barry R Lipsitz Attorney at Law		nguyen, steven h d			
755 Main Street Bldg 8			ART UNIT	PAPER NUMBER	
Monroe, CT 06468			2665		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application	No.	Applicant(s)				
Office Action Summary		09/666,901		LIU ET AL.				
		Examiner		Art Unit				
		Steven HD N	guyen	2665				
Period fo	The MAILING DATE of this communicat	ion appears on the co	over sheet with the c	correspondence ad	Idress			
A SH THE I - Exter after - If the - If NO - Failu Any r	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA nsions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communic period for reply specified above is less than thirty (30) day period for reply is specified above, the maximum statutor to reply within the set or extended period for reply will, reply received by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION.  ' CFR 1.136(a). In no event, ation.  ys, a reply within the statutory period will apply and will ex by statute, cause the application.	however, may a reply be tin y minimum of thirty (30) day pire SIX (6) MONTHS from ion to become ABANDONE	nely filed ys will be considered timel the mailing date of this c ED (35 U.S.C. § 133).				
Status								
1)🖂	Responsive to communication(s) filed o	n <i>08 November 200</i> 4	<b>1</b> .					
	☐ This action is <b>FINAL</b> . 2b)☐ This action is non-final.							
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims	•						
5)□ 6)⊠ 7)⊠	Claim(s) <u>1-13</u> is/are pending in the appl 4a) Of the above claim(s) is/are with Claim(s) is/are allowed. Claim(s) <u>1-3 and 13</u> is/are rejected. Claim(s) <u>4-12</u> is/are objected to. Claim(s) are subject to restriction	vithdrawn from consid			P			
Applicati	on Papers							
9)□ .	The specification is objected to by the Ex	kaminer.						
10)[	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11)	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  1) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority u	nder 35 U.S.C. § 119							
12) <u></u> a)[	Acknowledgment is made of a claim for to All b) Some * c) None of:  1. Certified copies of the priority doc 2. Certified copies of the priority doc 3. Copies of the certified copies of the application from the International ee the attached detailed Office action for	uments have been re uments have been re ne priority documents Bureau (PCT Rule 1	eceived. eceived in Applicati s have been receive 7.2(a)).	on No ed in this National	Stage			
Attachment	(s)							
	e of References Cited (PTO-892)	4)	☐ Interview Summary					
3) 🔲 Infom	e of Draftsperson's Patent Drawing Review (PTO-s nation Disclosure Statement(s) (PTO-1449 or PTO · No(s)/Mail Date	/SB/08) 5)	Paper No(s)/Mail Da Notice of Informal P Other:		)-152)			

#### **DETAILED ACTION**

# Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1-3 and 13 are rejected under 35 U.S.C. 102(b) as being anticipated by Balakrishnan (USP 5793425).

Regarding claims 1 and 13, Balakrishnan discloses an apparatus for processing a plurality of channels (Figs 1, Ref 22) in a statistical multiplexer (Fig 1, Ref 24) comprising means for allocating an encoding bit rate for coding a current picture of each channel according to a bit rate need parameters thereof (Fig 1, Ref 30 and lines 59-62); means for allocating a transmission bit rate for transmitting the current picture after encoding thereof (Fig 1, Ref 30, col. 4, lines 39-58) and providing a modeled decoder buffer that receives transmitted pictures therefrom, for each channel (Fig 2, Ref 27); wherein for each channel, the transmission bit rate is based on the channel's encoding bit rate, and is allocated following a system delay that follows the allocated encoding bit rate, to minimize a rate mismatch between an input and an output of the modeled decoder buffer (Col. 4, lines 5-37, col. 4, lines 63 to col. 5, lines 37, col. 6, line 35 to col. 8, lines 38).

Regarding claim 2, Balakrishnan discloses at least one of channels; the transmission bit rate is allowed to deviate from the channel's encoding bit rate to avoid an impending overflow or underflow event of the modeled decoder buffer (Col. 6, lines 36-65).

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Regarding claim 3, Balakrishnan discloses at least one of channels, check for impending overflow or underflow event of the modeled decoder buffer to set at least one of minimum and maximum limits on the transmission bit rates for the channel (Col. 10, lines 5-15).

### Response to Arguments

3. Applicant's arguments filed 11/08/04 have been fully considered but they are not persuasive.

In response to page 3, the applicant states that Balakrishnan does not disclose the transmission bit rate is based on the channel's encoding bit rate, and is allocated following a system delay that follows the allocated encoding bit rate, to minimize a rate mismatch between an input and an output of the modeled decoder buffer. In reply, Balakrishnan discloses the transmission bit rate is based on the channel's encoding bit rate "encoding rate of the encoder" and allocated based on the end to end buffer delay between the encoder and decoder in order to prevent the overflow and undeflow of the buffer "minimize a rate mismatch", See col. 8, lines 39-65 and See Abstract.

#### Allowable Subject Matter

4. Claims 4-12 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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## Conclusion

5. THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Steven HD Nguyen whose telephone number is (571) 272-3159. The examiner can normally be reached on 8-5.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Huy D Vu can be reached on (571) 272-3155. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Steven HD Nguyen Primary Examiner Art Unit 2665 4/16/05